

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Mitsuaki Oshima et al. : Art Unit: 2134
Serial No.: 09/588,364 : Examiner: P. E.
Filed: November 17, 1995 : Callahan
For: MARK FORMING APPARATUS, METHOD OF :
FORMING LASER MARK ON OPTICAL DISK,
REPRODUCING APPARATUS, OPTICAL DISK AND :
METHOD OF PRODUCING OPTICAL DISK : #19

Received

DEC 20 2002

Technology Center 2100

Assistant Commissioner for Patents
Washington, D.C. 20231

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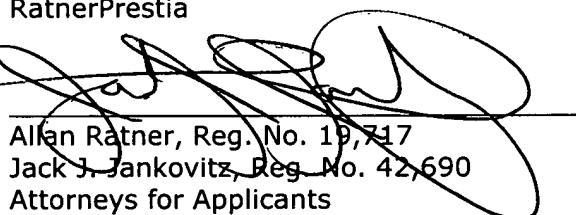
The undersigned surrendered to the Patent Office on November 22, 2002, an original Letters Patent No. 5,761,301. The original patent was given to Landon and Stark Associates who delivered it to Technology Center 2100.

Proof that the original patent was received in Technology Center 2100 on November 22, 2002 is shown in the attached copy of a postcard.

To the best knowledge of the undersigned, the original patent was delivered to the Technology Center 2100 on November 22, 2002. The Patent Office cannot find this original patent and the undersigned, therefore, believes that the original patent is now lost.

Respectfully Submitted,

RatnerPrestia


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Dated: December 20, 2002

Enclosure: Copy of postcard

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FILE NO.: MAT MTS 520051

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AMT. ENC'D.

NAME: OSHIMA ET AL.

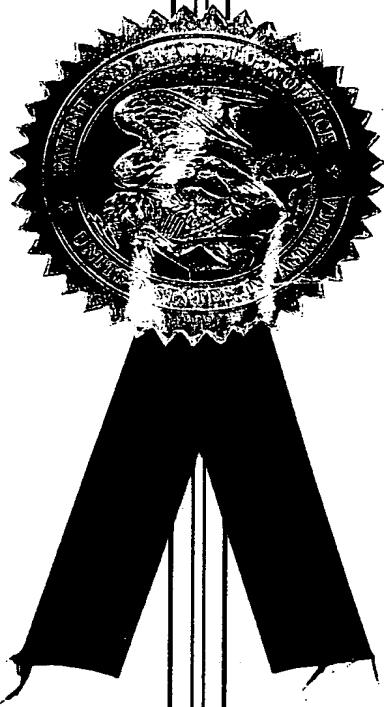
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- SURRENDER OF ORIGINAL PATENT Serial No.: 09/588,364

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The Commissioner of
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Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

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Bruce Lehman
Commissioner of Patents and Trademarks

Ollie M. Person
Attest



US005761301A

United States Patent [19]
Oshima et al.

[11] **Patent Number:** 5,761,301
[45] **Date of Patent:** Jun. 2, 1998

- [54] **MARK FORMING APPARATUS, METHOD OF FORMING LASER MARK ON OPTICAL DISK, REPRODUCING APPARATUS, OPTICAL DISK AND METHOD OF PRODUCING OPTICAL DISK**
- [75] Inventors: Mitsuaki Oshima, Kyoto; Yoshihiro Gotoh, Osaka, both of Japan
- [73] Assignee: Matsushita Electric Industrial Co., Ltd., Osaka, Japan

[21] Appl. No.: 560,015

[22] Filed: Nov. 17, 1995

[30] **Foreign Application Priority Data**

Nov. 17, 1994	[JP]	Japan	6-283415
Feb. 2, 1995	[JP]	Japan	7-016153
Oct. 9, 1995	[JP]	Japan	7-261247

[51] Int. Cl.⁶ H04K 1/00
[52] U.S. Cl. 380/4; 369/272; 235/494
[58] Field of Search 380/4; 369/272; 369/273, 286, 292, 52; 235/494

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Primary Examiner—David C. Cain
Attorney, Agent, or Firm—Ratner & Prestia

[57] **ABSTRACT**

An object of the present invention is to provide a marking forming apparatus, a method of forming a laser marking on an optical disk, a reproduction apparatus, an optical disk, and a method of manufacturing an optical disk, capable of providing a greatly improved copy prevention capability as compared to prior known construction. To achieve this object, in the optical disk of the invention, for example, a marking is formed by a laser on a reflective film of a disk holding data written thereon and at least position information of the marking or information concerning the position information is written on the disk in an encrypted form or with a digital signature appended thereto.

27 Claims, 43 Drawing Sheets

